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PT 2023 Proficiency Test Programme

(unaccredited provider)

Provider of Proficiency Testing Schemes:
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Informations for participants

Participants may register for the particular PT by short e-mail text to **info@spl-labmat.cz** by the end of the month preceeding the month for which the particular test is scheduled. A single registration for more PTs is possible.
All PTs are free of charge and all participant‘s data will be used for RM characterisation. In the certificate of RM, names of laboratories will be listed in an abbreviated form (anonymously, without stated code number as is usual in our certificates).
Please send us results in MS Excel XLSX format only. Current data forms are published in PT section of our webpages.
Participant will receive final reports, annexes and certificates by e-mail attachement or link only.
Sample dimensions for steel samples are d37x25mm, samples stays in participants ownership. Participant can send more set of results (different instruments and methods) for one PT.
Carriage is included for participants from European Union.
Limited count of samples is prepared for each PT. In case samples will be runned out, next participations will not be possible.
For participants outside of EU can be carriage charged (price on request).

PT 31/1 A, B, C Term: February - April 2023

PT 31/1A
Determination of C, Mn, Si, P, S, Cu, Cr, Ni, Al, Mo, W, V, Ti, Co, Sn, B, N **in low alloy steel, solid sample (steel chips – 30g on e-mail request)** ~ (C < 1%; Mn < 0.37%; Si < 0.21%; P < 0.02%; S < 0.02%; Cu < 0.06%; Cr < 0.14%; Ni < 0.08%; Al < 0.014%; Mo < 0.05%; W < 0.03%; V < 0.04%; Ti < 0.03%; Co < 0.02%; Sn < 0.05%; B < 0.007%; N < 0.01%) by Atomic Emission and X-Ray Fluorescence spectrometries on a plane of solid sample or methods wet–way analysis from chips, C, S on combustion analysers by IR absorption and N by thermoevolution method**.**

PT 31/1B
Determination of C, Mn, Si, P, S, Cu, Cr, Ni, Al, Mo, W, V, Ti, Co, As, Sn, B, Nb, Sb, Zr, Zn, N **in low alloy steel, solid sample (steel chips – 30g on e-mail request)** ~ (C < 0.08%; Mn < 1.4%; Si < 0.4%; P < 0.02%; S < 0.03%; Cu < 0.12%; Cr < 0.24%; Ni < 0.08%; Al < 0.08%; Mo < 0.04%; W < 0.02%; V < 0.02%; Ti < 0.22%; Co < 0.014%; As < 0.01%; Sn < 0.007%; B < 0.001%; Nb < 0.013%; Sb < 0.007%; Zr < 0.06%; Zn < 0.007%; N < 0.015%) by Atomic Emission and X-Ray Fluorescence spectrometries on a plane of solid sample or methods wet–way analysis from chips, C, S on combustion analysers by IR absorption and N by thermoevolution method**.**

PT 31/1C

Determination of C, Mn, Si, P, S, Cu, Cr, Ni, Al, Mo, W, V, Ti, Co, As, Sn, B, Ca, Nb, Sb, Zr, N **in low alloy steel, solid sample (steel chips – 30g on e-mail request)** ~ (C < 0.27%; Mn < 2.6%; Si < 1%; P < 0.03%; S < 0.015%; Cu < 0.11%; Cr < 2%; Ni < 0.22%; Al < 0.05%; Mo < 0.08%; W < 0.03%; V < 0.05%; Ti < 0.03%; Co < 0.03%; As < 0.011%; Sn < 0.02%; B < 0.008%; Ca < 0.004%; Nb < 0.4%; Sb < 0.02%; Zr < 0.011%; N < 0.03%)
by Atomic Emission and X-Ray Fluorescence spectrometries on a plane of solid sample or methods wet–way analysis from chips, C, S on combustion analysers by IR absorption and N by thermoevolution method**.**

PT 31/4A

Determination of C, Mn, Si, P, S, Cu, Cr, Ni, Al, Mo, W, V, Ti, Co, As, Sn, B, Ca, Nb, Pb, Zn, Ce, Mg **in ductile cast iron, solid sample (crushed sample 30g on e-mail request)** ~ (C < 4.2%; Mn < 0.5%; Si < 1.9%; P < 0.07%; S < 0.02%; Cu < 0.5%; Cr < 0.6%; Ni < 0.6%; Al < 0.05%; Mo < 0.27%; W < 0.03%; V < 0.24%; Ti < 0.1%; Co < 0.04%; As < 0.006%; Sn < 0.04%; B < 0.03%; Nb < 0.015%; Zn < 0.02%; Ce < 0.02%; Mg < 0.05%) by Atomic Emission and X-Ray Fluorescence spectrometries on a plane of solid sample or methods wet–way analysis from chips, C, S on combustion analysers by IR absorption**.**

PT 31/6A, PT 31/9A, PT 31/9B Term: September - October 2023

PT 31/6A

Determination of C, Mn, Si, P, S, Cu, Cr, Ni, Al, Mo, W, V, Ti, Co, Sn, B, Ca, Nb, Zr, Zn, N **in stainless steel, grade DIN 1.4404 (AISI316L), solid sample (steel chips – 30g on e-mail request)**
~ (C < 0.02%; Mn < 2%; Si < 0.5%; P < 0.06%; S < 0.04%; Cu < 0.8%; Cr < 18%; Ni < 11%; Al < 0.008%; Mo < 2.3%; W < 0.11%; V < 0.08%; Ti < 0.005%; Co < 0.34%; Sn < 0.015%; B < 0.003%; Ca < 0.001%; Nb < 0.09%; Zr < 0.008%; Zn < 0.04%; N < 0.1%) by Atomic Emission and X-Ray Fluorescence spectrometries on a plane of solid sample or methods wet–way analysis from chips, C, S on combustion analysers by IR absorption.

PT 31/9A

Determination of Fe, SiO_2, Al_2O_3, MnO, CaO, MgO, P_2O_5, S, Cr_2O_3, TiO_2, F **in steel slag (70g)**
~ (Fe < 0.8%; SiO_2 < 29%; Al_2O_3 < 8%; MnO < 0.17%; CaO < 64%; MgO < 8%; P_2O_5 < 0.018%; S < 0.9%; Cr_2O_3 < 0.05%; TiO_2 < 0.5%; F < 4.5%) by X-Ray Fluorescence spectrometries and wet-way analysis, S on combustion analysers by IR absorption.

PT 31/9B

Determination of Fe_2O_3, SiO_2, Al_2O_3, CaO, MgO, K_2O, LOI **in limestone** (vápenec) **(70g)**
~ (Fe_2O_3 < 0,7%; SiO_2 < 0,8%; Al_2O_3 < 0,27%; CaO < 54%; MgO < 9%; K_2O < 0,2%; LOI < 48%)
by X-Ray Fluorescence spectrometries, wet-way analysis and determination of LOI (loss of ignition).

SPL-LABMAT PT 2023 time schedule

PT 31/1 A, B, C **PT 31/4**	**13th-15th February 2023** Dispaching of the samples	**24th February 2023** *Please inform us immediately if you don´t receive a sample!!!*	**12th April 2023** Deadline for submitting results	**13th April - 30th June 2023** Evaluation, issuance of certificates and reports, sending of results
PT 31/6A **PT 31/9 A, B**	**1st-4th September 2023** Dispaching of the samples	**15th September 2023** *Please inform us immediately if you don´t receive a sample!!!*	**31th October 2023** Deadline for submitting results	**1st November – 18th December 2023** Evaluation, issuance of certificates and reports, sending of results